

9550
0405 OIPE

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date: 4/9/2002
Edited by: AC
Verified by: AC (STIC staff)

Serial Number: 09/901,556A

Changed a file from non-ASCII to ASCII

ENTERED

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____.

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other:



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/901,556A

DATE: 04/09/2002
TIME: 17:34:37

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\04092002\I901556A.raw

3 <110> APPLICANT: Hotten, Gertrud
 4 Neidhardt, Helge
 5 Bechtold, Rolf
 6 Pohl, Jens
 8 <120> TITLE OF INVENTION: GROWTH/DIFFERENTIATION FACTORS OF THE TGF-B FAMILY
 10 <130> FILE REFERENCE: 100564-09021
 12 <140> CURRENT APPLICATION NUMBER: 09/901,556A
 13 <141> CURRENT FILING DATE: 1999-08-25
 15 <150> PRIOR APPLICATION NUMBER: 08/289,222
 16 <151> PRIOR FILING DATE: 1994-08-12
 18 <150> PRIOR APPLICATION NUMBER: DE P 44 23 190.3
 19 <151> PRIOR FILING DATE: 1994-07-01
 21 <150> PRIOR APPLICATION NUMBER: EPO 92102324.8
 22 <151> PRIOR FILING DATE: 1992-02-12
 24 <150> PRIOR APPLICATION NUMBER: PCT/EP93/00350
 25 <151> PRIOR FILING DATE: 1993-02-12
 27 <160> NUMBER OF SEQ ID NOS: 53
 29 <170> SOFTWARE: PatentIn version 3.1
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 1207
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Homo sapiens
 36 <400> SEQUENCE: 1
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 39 gactgtgacc ccaaaaggac agttcccg aggcaaggca ccccccggg caggatctgt 120
 41 ccccagctcc ttccctgctga agaaggccag ggagcccg ggccacacgg agcccaagga 180
 43 gccgttccgc ccacccccc tcacacccca cgagtacatg ctctcgctgt acaggacgct 240
 45 gtccgatgct gacagaaaagg gaggcaacag cagcgtgaag ttggaggctg gcctggccaa 300
 47 caccatcacc agctttattt acaaaggccca agatgaccga gttccctgtt tcagaagca 360
 49 gaggtacgtg tttgacattt gtgcctgg gaaggatggg ctgctggggg ccgagctgcg 420
 51 gatcttcggg aagaagccct cggacacggc caagccagcg gccccggag gccccggggc 480
 53 tgcccaagctg aagctgtcca gctgcctccag cggccoggcag ccggcctct tgctggatgt 540
 55 gcgctccgtg ccaggcctgg acggatctgg ctgggagggtg ttgcacatct ggaagctctt 600
 57 ccgaaacttt aagaactcgg cccagctgtg cctggagctg gaggcctggg aacggggcag 660
 59 ggccgtggac ctccgtggcc tgggcttcga ccgcggccccc cggcagggtcc acgagaaggc 720
 61 cctgttcctg gtgtttggcc gcaccaagaaa acgggacctg ttctttaatg agattaaggc 780
 63 ccgctctggc caggacgata agaccgtgtt tgagtacctg ttgcagccagc ggcggaaaacg 840
 65 gccccccca ctggccactc gccaggcggaa gcgaccggc aagaacctta aggctcgctg 900
 67 cagtcggaaag gcactgcatttcaacttcaa ggacatgggc tgggacgact ggatcatcgc 960
 69 acccccttgag tacgaggctt tccactgcga ggggtgtgc gagttcccat tgcgtccca 1020
 71 cctggagccc acgaatcatg cagtcatcca gaccctgtatg aactccatgg accccgagtc 1080
 73 cacaccaccc acctgtgtg tgcccacggc gctgatccc atcagcatcc tcttcattga 1140
 75 ctctgccaac aacgtgggtgataaggcgtt tgaggacatg gtcgtggagt cgtgtggctg 1200

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Input Set : A:\PTO.AMC.txt
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83	<213> ORGANISM: Homo sapiens	
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88	ttgagaccac agctgttag accctgagcc ctgagtcgtt attgctcaag aaggcccttc	120
90	cccagcaatg acctccat tgcattctggc ctttctcctc ctggctccaa ccacagtggc	180
92	cactcccaga gctggcggtc agtgtccagc atgtgggggg cccaccttgg aactggagag	240
94	ccagcgggag ctgcttcttg atctggccaa gagaacatc ttggacaagc tgcacctcac	300
96	ccagcggccca acactgaacc gcccgtgtc cagagtcgtt ttgaggactg cactgcagca	360
98	cctccacggg gtcccacagg gggcacttct agaggacaac agggAACAGG aatgtgaaat	420
100	catcagctt gctgagacag gcctctccac catcaaccag actcgttctt atttcactt	480
102	ctcctctgtat agaactgctg gtgacagggg ggtccagcag gccagtcata tttttttgt	540
104	gcagctccct tccaaatacca cttggacctt gaaagtgaga gtccttgc tgggtccaca	600
106	taataccaaac ctcacccctgg ctactcagta cctgctggg gtggatgcca gtggctggca	660
108	tcaactcccc ctagggcctg aagctcaagc tgcctgcagc cagggcacc tgaccctgga	720
110	gctggtaactt gaaggccagg tagcccagag ctcagtcata ctgggtggag ctggccatag	780
112	gcctttgtg gcagccccgg tgagagttgg gggcaaacac cagattcacc gacgaggcat	840
114	cgactgccaa ggagggtcca ggatgtgtc tcgacaagag tttttgtgg acttccgtga	900
116	gattggctgg cacgactgga tcatccagcc tgagggtcac gccatgaact tctgcataagg	960
118	gcagtgccta ctacacatag caggcatgcc tggattgtc gcctccttc acactgcagt	1020
120	gctcaatctt ctcaaggcca acacagctgc aggccacact ggagggggct catgctgtgt	1080
122	acccacggcc cggcgcccccc tgtctctgt ctattatgac agggacagca acattgtcaa	1140
124	gactgacata cctgacatgg tagtagagggc ctgtgggtgc agttagtcata tgtgtggtat	1200
126	gggcagccca aggttgcattt gaaaaacacg cccctacaga agtgcacttc cttgagagga	1260
128	ggaatgacc tcattctctg tccagaatgt ggactccctc ttccctgagca tcttatggaa	1320
130	attacccac ctttgcattt aagaaacctt catctaaagc aagtcaactgt gccatcttcc	1380
132	tgaccactac cctcttcctt agggcatatgt ccatcccgct agtccatccc gctagcccc	1440
134	ctccagggac tcagacccat ctccaaccat gagcaatgcc atctggtcc caggcaaga	1500
136	cacccttagc tcacccatccat tagaccccat aaccctat gccttcctgt ccttctact	1560
138	caatggccc cactccaaga tgagttgaca caacccctc ccccaatttt tgtggatctc	1620
140	cagagaggcc cttctttggc ttccacccaaat ttttagatcac tgctgcccaa aatagaggct	1680
142	tacccatccc cctctttgtt gtgagccct gtccttcata gttgtccagg tgaactacta	1740
144	aagctctttt tgcataccctt catccatccc ttgtcccttc ctgccttcctt ctatgccctt	1800
146	aagggtgtac ttgcctgagc tctatccacct gagctccctt gccctctggc ttccctgtca	1860
148	ggtcagggca ttcttatcc ctgtccctc tctgtctagg tgcattgtt ctgtgtact	1920
150	gtggctattt tgcatttttca cactacccat ccacccctt ccatggcccc agctctgcct	1980
152	acattctgtat tttttttttttttt tggatgttaaaatccat aattttttat	2040
154	tcctggtacc actaccacaa ttacagggc aatataccatg atgtaatgaa aagaaaaaga	2100
156	aaaagacaaa gctacaacag ataaaagacc tcaggaatgt acatctaatt gacactacat	2160
158	tgcattaatc aatagctgca ctttttgcac actgtggcta tgacagtcct gaacaagaag	2220
160	gtttccctgt ttaagctgca gtaactttc tgactatggc tcatcgatcc tt	2272
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164	<211> LENGTH: 401	
165	<212> TYPE: PRT	
166	<213> ORGANISM: Homo sapiens	
168	<400> SEQUENCE: 3	

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170 Pro Gly Gly Pro Glu Pro Lys Pro Gly His Pro Pro Gln Thr Arg Gln
 171 1 5 10 15
 174 Ala Thr Ala Arg Thr Val Thr Pro Lys Gly Gln Leu Pro Gly Gly Lys
 175 20 25 30
 178 Ala Pro Pro Lys Ala Gly Ser Val Pro Ser Ser Phe Leu Leu Lys Lys
 179 35 40 45
 182 Ala Arg Glu Pro Gly Pro Pro Arg Glu Pro Lys Glu Pro Phe Arg Pro
 183 50 55 60
 186 Pro Pro Ile Thr Pro His Glu Tyr Met Leu Ser Leu Tyr Arg Thr Leu
 187 65 70 75 80
 190 Ser Asp Ala Asp Arg Lys Gly Gly Asn Ser Ser Val Lys Leu Glu Ala
 191 85 90 95
 194 Gly Leu Ala Asn Thr Ile Thr Ser Phe Ile Asp Lys Gly Gln Asp Asp
 195 100 105 110
 198 Arg Gly Pro Val Val Arg Lys Gln Arg Tyr Val Phe Asp Ile Ser Ala
 199 115 120 125
 202 Leu Glu Lys Asp Gly Leu Leu Gly Ala Glu Leu Arg Ile Leu Arg Lys
 203 130 135 140
 206 Lys Pro Ser Asp Thr Ala Lys Pro Ala Ala Pro Gly Gly Arg Ala
 207 145 150 155 160
 210 Ala Gln Leu Lys Leu Ser Ser Cys Pro Ser Gly Arg Gln Pro Ala Ser
 211 165 170 175
 214 Leu Leu Asp Val Arg Ser Val Pro Gly Leu Asp Gly Ser Gly Trp Glu
 215 180 185 190
 218 Val Phe Asp Ile Trp Lys Leu Phe Arg Asn Phe Lys Asn Ser Ala Gln
 219 195 200 205
 222 Leu Cys Leu Glu Leu Glu Ala Trp Glu Arg Gly Arg Ala Val Asp Leu
 223 210 215 220
 226 Arg Gly Leu Gly Phe Asp Arg Ala Ala Arg Gln Val His Glu Lys Ala
 227 225 230 235 240
 230 Leu Phe Leu Val Phe Gly Arg Thr Lys Lys Arg Asp Leu Phe Phe Asn
 231 245 250 255
 234 Glu Ile Lys Ala Arg Ser Gly Gln Asp Asp Lys Thr Val Tyr Glu Tyr
 235 260 265 270
 238 Leu Phe Ser Gln Arg Arg Lys Arg Arg Ala Pro Leu Ala Thr Arg Gln
 239 275 280 285
 242 Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala Arg Cys Ser Arg Lys Ala
 243 290 295 300
 246 Leu His Val Asn Phe Lys Asp Met Gly Trp Asp Asp Trp Ile Ile Ala
 247 305 310 315 320
 250 Pro Leu Glu Tyr Glu Ala Phe His Cys Glu Gly Leu Cys Glu Phe Pro
 251 325 330 335
 254 Leu Arg Ser His Leu Glu Pro Thr Asn His Ala Val Ile Gln Thr Leu
 255 340 345 350
 258 Met Asn Ser Met Asp Pro Glu Ser Thr Pro Pro Thr Cys Cys Val Pro
 259 355 360 365
 262 Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe Ile Asp Ser Ala Asn Asn
 263 370 375 380
 266 Val Val Tyr Lys Gln Tyr Glu Asp Met Val Val Glu Ser Cys Gly Cys

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275	<211>	LENGTH: 352		
276	<212>	TYPE: PRT		
277	<213>	ORGANISM: Homo sapiens		
279	<400>	SEQUENCE: 4		
281	Met Thr Ser Ser Leu Leu Leu Ala Phe Leu Leu Leu Ala Pro Thr Thr			
282	1	5	10	15
285	Val Ala Thr Pro Arg Ala Gly Gly Gln Cys Pro Ala Cys Gly Gly Pro			
286	20	25	30	
289	Thr Leu Glu Leu Glu Ser Gln Arg Glu Leu Leu Leu Asp Leu Ala Lys			
290	35	40	45	
293	Arg Ser Ile Leu Asp Lys Leu His Leu Thr Gln Arg Pro Thr Leu Asn			
294	50	55	60	
297	Arg Pro Val Ser Arg Ala Ala Leu Arg Thr Ala Leu Gln His Leu His			
298	65	70	75	80
301	Gly Val Pro Gln Gly Ala Leu Leu Glu Asp Asn Arg Glu Gln Glu Cys			
302	85	90	95	
305	Glu Ile Ile Ser Phe Ala Glu Thr Gly Leu Ser Thr Ile Asn Gln Thr			
306	100	105	110	
309	Arg Leu Asp Phe His Phe Ser Ser Asp Arg Thr Ala Gly Asp Arg Glu			
310	115	120	125	
313	Val Gln Gln Ala Ser Leu Met Phe Phe Val Gln Leu Pro Ser Asn Thr			
314	130	135	140	
317	Thr Trp Thr Leu Lys Val Arg Val Leu Val Leu Gly Pro His Asn Thr			
318	145	150	155	160
321	Asn Leu Thr Leu Ala Thr Gln Tyr Leu Leu Glu Val Asp Ala Ser Gly			
322	165	170	175	
325	Trp His Gln Leu Pro Leu Gly Pro Glu Ala Gln Ala Ala Cys Ser Gln			
326	180	185	190	
329	Gly His Leu Thr Leu Glu Leu Val Leu Glu Gly Gln Val Ala Gln Ser			
330	195	200	205	
333	Ser Val Ile Leu Gly Gly Ala Ala His Arg Pro Phe Val Ala Ala Arg			
334	210	215	220	
337	Val Arg Val Gly Gly Lys His Gln Ile His Arg Arg Gly Ile Asp Cys			
338	225	230	235	240
341	Gln Gly Gly Ser Arg Met Cys Cys Arg Gln Glu Phe Phe Val Asp Phe			
342	245	250	255	
345	Arg Glu Ile Gly Trp His Asp Trp Ile Ile Gln Pro Glu Gly Tyr Ala			
346	260	265	270	
349	Met Asn Phe Cys Ile Gly Gln Cys Pro Leu His Ile Ala Gly Met Pro			
350	275	280	285	
353	Gly Ile Ala Ala Ser Phe His Thr Ala Val Leu Asn Leu Leu Lys Ala			
354	290	295	300	
357	Asn Thr Ala Ala Gly Thr Thr Gly Gly Ser Cys Cys Val Pro Thr			
358	305	310	315	320
361	Ala Arg Arg Pro Leu Ser Leu Leu Tyr Tyr Asp Arg Asp Ser Asn Ile			
362	325	330	335	

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365 Val Lys Thr Asp Ile Pro Asp Met Val Val Glu Ala Cys Gly Cys Ser
366 340 345 350
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370 <211> LENGTH: 265
371 <212> TYPE: DNA
372 <213> ORGANISM: Homo sapiens
374 <400> SEQUENCE: 5
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377 aggcatgcct ggtattgctg cctccttca cactgcgtg ctcaatcttc tcaaggccaa 120
379 cacagctgca ggcaccactg gagggggctc atgctgtgta cccacggccc ggcgccccct 180
381 gtctctgctc tattatgaca gggacagcaa cattgtcaag actgacatac ctgacatgg 240
383 agtagaggcc tgtgggtgca gttag 265
386 <210> SEQ ID NO: 6
387 <211> LENGTH: 139
388 <212> TYPE: DNA
389 <213> ORGANISM: Homo sapiens
391 <400> SEQUENCE: 6
392 catcgacccc ttgagttacg aggcttcca ctgcggggg ctgtgcgagt tccattgcg 60
394 ctccccacctg gagccacga atcatgcagt catccagacc ctgatgaact ccatggaccc 120
396 cgagtccaca ccaccacc 139
399 <210> SEQ ID NO: 7
400 <211> LENGTH: 27
401 <212> TYPE: DNA
402 <213> ORGANISM: Homo sapiens
404 <400> SEQUENCE: 7
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408 <210> SEQ ID NO: 8
409 <211> LENGTH: 30
410 <212> TYPE: DNA
411 <213> ORGANISM: Homo sapiens
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417 <210> SEQ ID NO: 9
418 <211> LENGTH: 9
419 <212> TYPE: PRT
420 <213> ORGANISM: Homo sapiens
422 <400> SEQUENCE: 9
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425 1 5
428 <210> SEQ ID NO: 10
429 <211> LENGTH: 10
430 <212> TYPE: PRT
431 <213> ORGANISM: Homo sapiens
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